

METHOD AND APPARATUS FOR INSERTING EMPTY MEMORY CELLS INTO A  
DATA FLOW OF NETWORK CONNECTIONS OF A COMPUTER NETWORK

ABSTRACT

A method and an apparatus are provided for inserting  
5 empty memory cells into a data flow of network connections of  
a computer network. In one example, the method includes  
receiving an insertion request for an empty memory cell to be  
inserted into the data flow. A base connection identification  
(CID) associated with the insertion request is also received.  
10 An appropriate insertion scheme for carrying out the insertion  
request is determined. Based on the appropriate insertion  
scheme, the insertion request is sent to an insertion device  
that is configured to insert the empty memory cell into the  
data flow. The memory cell is inserted prior to traffic  
15 shaping of the data flow.